



UNIVERSITY of NEBRASKA
LINCOLN

Box Butte County Irrigated 2025 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)	Grain Weight (1000 seeds/lb)
WB4640	WestBred	126.3	60.8	7.4	36.1	12.04
NEB148-42	UNL-Experimental	124.8	62.0	7.3	40.4	13.58
WB4303	WestBred	124.1	57.0	8.6	36.7	14.06
NHH19668	UNL-Experimental	122.5	60.6	8.2	41.9	12.54
LCS Steel AX	Limagrain Cereal Seeds	121.6	59.6	7.7	41.6	14.57
AP Sunbird	AgriPro	121.3	62.4	7.5	38.0	11.96
WB4699	WestBred	121.2	58.0	7.8	37.8	15.31
KS Bill Snyder	Kansas Wheat Alliance	121.0	59.8	8.3	37.6	12.87
LCS Radar	Limagrain Cereal Seeds	120.5	59.3	8.3	37.6	13.10
WB4422	WestBred	120.4	62.1	7.8	38.9	12.85
LCS Mojo	Limagrain Cereal Seeds	120.3	58.4	7.5	40.9	13.68
WB4595	WestBred	119.8	59.7	7.7	41.1	13.88
NE18435	UNL-Experimental	118.7	60.7	7.1	39.3	13.26
WB4445CLP	WestBred	118.0	61.3	8.6	38.1	12.86
Sheridan	PlainsGold	117.7	60.9	7.9	41.0	14.57
LCS Valiant	Limagrain Cereal Seeds	116.5	59.3	7.9	39.6	12.94
LCS Helix AX	Limagrain Cereal Seeds	116.0	61.1	7.4	39.9	12.90
NE18455	UNL-Experimental	115.6	59.0	7.7	41.5	14.05
AR Iron Eagle 22AX	Armor	114.5	59.6	7.3	40.1	13.72
WB4523	WestBred	114.4	58.3	7.7	37.9	15.68
LCS Aries	Limagrain Cereal Seeds	113.6	59.1	7.2	40.7	12.57
FVC Valley	FVC	113.5	59.3	7.2	41.5	14.22
Wesley	NuHorizon Genetics	113.3	58.3	9.0	41.3	14.07
CP7017AX	Croplan	112.1	61.2	7.6	39.1	13.76
Epoch	Nu Horizon Genetics	111.4	58.9	8.5	38.4	13.60
NE17441	UNL-Experimental	110.6	60.4	7.9	42.8	13.73
Canvas	PlainsGold	110.1	59.4	8.0	38.9	15.24
NEB145-12	UNL-Experimental	109.9	59.1	8.4	40.3	12.64
NE20620	UNL-Experimental	108.7	59.8	8.2	41.0	11.88
CO19D087R	CSU-Experimental	108.3	56.3	8.4	36.5	16.96
CP7869	Croplan	108.1	57.2	8.7	39.4	13.90
AR Turret 25	Armor	107.7	59.6	8.7	41.1	16.03
NE22252	UNL-Experimental	102.4	60.6	8.8	42.6	11.67

¹ Yield values corrected to 12% moisture content. Bolded values indicate highest LSD grouping.

² Protein corrected to 14% moisture content, the correction factor used in analytical standards. Turkey and Scout 66 excluded from protein LSD groups due to known high protein contents.

Name	Company	Yield (bu/ac)	Test Weight (lb/bu)	Protein (%)	Plant Height (in)	Grain Weight (1000 seeds/lb)
Scout 66	Check	69.6	54.6	10.1	46.5	12.41
Turkey	Check	66.7	56.6	10.3	48.1	13.80
Summary Statistics						
Standard Error		3.1	1.0	0.5	1.4	0.67
LSD ³		5.2	1.6	0.8	2.3	1.13
Mean ⁴		113.2	59.4	8.1	40.1	13.63
CV ⁵		2.8	1.7	5.8	3.4	4.9
Reps		4	4	2	4	2

SITE INFORMATION

Collaborator:	Tom Cullan, Cullan Farm Seed, Hemingford, NE
Planting Date:	9/17/2025
Seeding Rate:	1.75 million s/a
Harvest Date:	7/28/2025
Fertility:	50 lb/a 40 Rock applied in-furrow at planting; 100-0-0-15S-2Mn streamed in early spring
Herbicide/Fungicides:	Affinity and Onset applied at labeled rates
Soil Type:	Rosebud, Alliance, and Duroc loams
GPS:	42.294695, -103.035414
Planting Info:	Planted 1.5" into tilled ground after dry bean harvest
Notes on Trial:	Irrigation in fall increased to enhance fall establishment due to dry conditions; regular and consistent spring irrigation. Plot vigor and yield was excellent without any observed lodging in varieties except Scout 66 and Turkey, as expected.

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³ For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

⁴ Mean performance of all plots in the trial.

⁵ Coefficient of Variation (CV) indicates the quality of a trial, and lower than 15 indicates a high-quality trial. For CV>15, there was higher than expected variability in the field or the data and the results should be used with caution.